

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

5 GGCACGAGGG AGAACAAAAA TGGCAGCATT CTTGTTCTTC CTCACCATCG CAGCCTTCAC 60
 TGCCCCCATC TACTCTTCTC GTGCACCCCTT AACGTCGGCA GCTGTCCGCG ACCCTGAATT 120
 AGTAGTACAG GAAGTACAAA GAAGCTTGAA CGTGTCGCGG CGGCGACTGG GCTACTTGTC 180
 10 ATGCGGCACC GGCAATCCGA TCGACGACTG CTGGCGGTGC GACCCTGACT GGGCTGACAA 240
 CCGGCAGCGG CTCGCGGACT GCGCCATCGG GTTCGGGAAG AACGCGATTG GGGGCAGGGA 300
 15 CGGCGAGATA TACGTGGTGA CCGACAGTGG CGACNACNAC CCCGTCAATC CGAAGCCGGG 360
 CACGCTCCGG TACGCCGTCA TCCANGAGGG AGCCGCTGTG GATCATCTTC AAGCGCGACA 420
 TGGTCATCCA GCTGAAGGAA GGAGCTCATC ATGAAACTCC CACANAGACC ATCGACGGCC 480
 20 GGGGCGCCAG CGTCCACATC TCCGGGGGGC CGTGCATCAC CACCAGTNCG TCNCCAACAT 540
 CATCATCCAC GGGCGTCCAC TTCCACNAAT GCAANCAGGG CGGGGAACGC CTTACGTTTCG 600
 CGACTCCCCC AGGGCACTAC GGGTGGCGCA CCGGTGTCCG AACGGCNANG GGGTTTTCAT 660
 25 CTTCCGCGGG AACCACCTTCT GGGGTCA 687

(2) INFORMATION FOR SEQ ID NO: 15:

- 30 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 741 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 35 (D) TOPOLOGY: unknown

35 (ii) MOLECULE TYPE: cDNA

40 (vii) IMMEDIATE SOURCE:
 (B) CLONE: U-U84

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

45 TCCACATTGC CAATGGCGCC TGCATCACCA TNCAGTACAT CACCAACGTC ATCATCCATG 60
 GCCTCCACAT CCACGACTGC AAGCCACCG GGAATGCCAT GGTCCGCGAG TCTCCTTCTC 120
 50 ACTATGGATG GAGAACCATG GCTGATGGGG ATGCCGTTTC CATTTCGGC TCCAGCCACA 180
 TTTGGGTGGA CCACTGCTCT CTGTCCAAC TCGCCGATGG ACTTGTCGAT GCCGTCATGG 240
 55 GCTCCACTGC CATTACGGTC TCCAACAATT ACTTCACCCA CCACAATGAG GTCATGCTTT 300
 TGGGACACAC TGATTCTTAT GCAAGGGACA GCATCATGCA AGTAACGATC GCATTAAACC 360
 ATTTTGGTGA AGGTCTGATT CAGAGAATGC CCAGGTGCAG GCATGGCTAC TTCCACGTGG 420
 60 TAAACAATGA CTACACGCAC TGGGAGATGT ACGCCATTGG CGGTAGCGCG AATCCAACGA 480
 TCAACAGTCA AGGCAACCGA TACCTTGCGC CGACCAATCC ATTTGCAAAG GAAGTAACAA 540
 AAAGGGTGGG CACAGATCAA AGCACGTGGA AAAACTGGAA TTGGANGTCN GAAGGTGACC 600
 65 TGCTTCTGAA TGGTGCTTTT TTCACCCCTC CGGTGCANGG GCTTTCACCC ANCTACGCAC 660
 GGGCCTCCAC TTTGGGGGCA ACCCTCTTCC TTNGTTGANA CACTGACTCT GATGCTGGGG 720
 70 TCCTGTTTTG CCAATTCGGN C 741

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 727 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (B) CLONE: U-U89

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

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GGCACGAGTT CTCTCCTTCG ATCACATCTT TTTGCTCTGG GAAACGTGAG AGGTGAGAAG      60
AGGGCGGGCAA TGACGGCGGG TTTAAGATGG ATTCCTCCTC TGCTTCTTCT TCTTCTGGGC      120
TTCCTGCTGG TTTTGAACGG AAGTCGGGGG TGGATTGGAA GCGAGCGGTC CTCTGGCTCG      180
AGGAATGGCG GAGCATCGCG GAGGAGCTTG AGAGAGGCCT CCGCGAACGC GACCAGCGCC      240
GATGCTTCCT TGAAGAGAG GGCTGTAACC AGGGCAGCAG AAGCCGCANT CGACGACCCC      300
GAGGAGGTTG CTTGACGGT CTTGACGACC ATAATCAACA GCACGGCTCG CAGATCTCTT      360
GGTTATCTGT CGTGCGGTT AGGCAACCCG ATCGACGACT GCTGGCGGTG CGACCCCGAT      420
TGGCATGTCA ACAGAAAAAA GCTCGCTGAC TGCGGCATTG GCTTTGGCCC GCAACGCGAT      480
ANGTGCCGC CACNGGGANT TGTNCNTTGT TGACAGACTC CGGGGACGAT GATCCCGTGA      540
ATCCTCCCCC GGAACACTTA ATATTCCCCG TCATCCCAGA NCTNCCCCTC TGGATCNCCT      600
TTTAAACACG ACATTGGAAA TCNCCCCCNG GAAGAACTCC TTTNTAACCG CTTTNNAACA      660
TCNATGGACN CGTGTCCACN TTCCACNTTT GCCAATGGCG CCTGCCTCNC CANCCNATTT      720
AATCNCC                                           727

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(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 842 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (B) CLONE: U-U115

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

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GGCAGAGGG AGAACAAAAA TGGCAGCATT CATGTTCTTC CTCACCATCG CAGCCTTCAC      60
TGCCCCCGTC TACTCTTCTC GTGCACCCTT AACGTCAGCA GCTGTCCGCG ACCCTGAATT      120
AGTAGTACAG GAAGTACAAA GAAGCTTGAA CGTGTGCGCG CGGCGACTGG GCTACTTGTC      180
ATGCGGCACC GGCAATCCGA TCGACGACTG CTGGCGGTGC GACCCTGACT GGGCTGACAA      240
CCGGCAGCGG CTCGCTGACT GCGCCATCGG GTTCGGGAAG AACGCGATTT GGGGCAGGGA      300

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CGGCGAGATA TACGTGGTGA CCGACAGTGG CGACNACGAC CCCGTCAATC CGAAAACGGG 360
CACGCTCCGG TACGCCGTCA TCCAGGAGGA GCCGCTGTGG ATCATCTTCA AGCGCGACAT 420
GGTCATCCAG CTGAAGGAGG AGCTCATCAT GAACTCCAC AAGACCATCG ACGGCCGGGG 480
CGCCAGCGTC CACATCTCCG GCGGGCCGTG CATCACCACC AGTACGTCAC CAACATCATC 540
ATCCACGGCG TCCACATCCA CGAATGCAAG CAGGGCGGGA ACGCGTNCGT TCGCNACTCC 600
CCAAGGGCAC TACGGGTGG CGCACNGTGT TCNGACGGCG ACGGGTGTCC ATCTTCCGCG 660
GGAACCACTC TGGGTCCAAC CACTGCANCG CTGTTCCTCA CTTGGCCAC CNAANTGGGC 720
CTTCNTCCC AACCCCCATT TCCTTGGGAT TCCCCCGC CAATTCCCC ATTTTCCAAC 780
NAACTTNCTT TGAACCNCC CNTGAANAAG GTCCTTGCTG CTGGGTCCA CCAACAATT 840
NA 842

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 724 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (B) CLONE: U-U117

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

GGCACGAGTC TCCTTCGATC ACATCTTTTT GCTCTGGGAA ACGTGAGAGG TGAGACGAGG 60
GCGGCAATGA CGGCGGGTTT AAGATGGATT CCTCTCTGC TTCTTCTTCT TATGGGCTTC 120
CTGCTGGTTT TGAACGGAGG TCGGGGTGG ATTGGAAGCG AGAGGTCCTC TGGCTCGAGG 180
AATGGCGGAG CATCGCGGAG GAGCTTGAGA NAGGCCTCCG CGAACGCGAC CAGCGCCGAT 240
GCTTCCTTGG AAGACAGGGC TGTAACCAGG GCAGCAGAAG CCGCAGTCGA TGACCCCGAG 300
GAGGTGCTT CGACGGTCCT GACGACCATA ATCAACAGCA CGGCTCGAAN ATCTCTTGGT 360
TATGTGTCGT GCGGTTGAG CAACCCGATC GACNACTGCT GGCGGTGCGA CCCCATTGG 420
CATNTCAACA GAAAAAGCT CGCTGACTGT GGCATTGGCT TTGGCCGCA CCGATANGT 480
GGCCGCGACG GGGANTTGTN CGTTGTGACA GACTCCGGGG ACGATGATCC CCNTGAATCC 540
TCCCCGGGA AACTTANAT NCCCGTCNTC CNNGAANTTT CCCCTCTGGA TCNCCTTAA 600
ACCCACNTGG ANATCCCCCN CNAGGAAGAA CTCCTTATGA ACNGCTTTT AAAACATCGA 660
TNGGACCCNG TTTCCACTTC CNCATTNGCC NAATTGGGCG CCCTGGCCNT CCNCCNTCC 720
CCAA 724

(2) INFORMATION FOR SEQ ID NO: 19:

(1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 797 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single